WHAT IS CLAIMED IS:

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1	1. A smoking cessation method, said method comprising:
2	measuring a blood nicotine concentration while a patient is smoking;
3	determining at least two values corresponding to patient characteristics
4	selected from the group consisting of a body mass factor, a cumulative smoking factor, a
5	psychological dependence factor, age, and menopausal status; and
6	administering nicotine to the patient at an initial dosage determined based or
7	said blood nicotine concentration and said at least two values.
1	2. A method as in claim 1, wherein the nicotine is administered
2	transdermally with the initial dosage controlled by the area of transdermal delivery.
1	3. A method as in claim 1, wherein the nicotine is administered
2	transdermally with the initial dosage controlled by the concentration of nicotine in a
3	transdermal patch.
1	4. A method as in claim 1, wherein the initial dosage is determined to
2	maintain a target serum nicotine level in the patient which is at least 40% of the smoking
3	nicotine concentration.
1	5. A method as in claim 1, wherein the patient is a male and the patient
2	characteristics include at least a body mass factor and a cumulative smoking factor.
1	6. A method as in claim 5, wherein the body mass factor is a body mass
2	index which is weight divided by height squared and wherein the cumulative smoking
3	factor is the number of packs smoked per day immediately prior to cessation times the
4	number of years smoked.
1	7. A method as in claim 5, wherein the patient characteristics further
2	include a psychological dependence factor, which is measured using the Fagerström
3	Tolerance Questionnaire.
1	8. A method as in claim 7, wherein the patient characteristics further
2	include age measured as years.
1	9. A method as in claim 1, wherein the patient is a female and the

patient characteristics include at least a psychological dependence factor and age.

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1	10. A method as in claim 9, wherein the psychological dependence
2	factor is measured using the Fagerström Tolerance Questionnaire and age is measured as
3	years.
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1	11. A method as in claim 9, wherein the patient characteristics further
2	include menopausal status, wherein no factor is introduced for pre-menopausal women and
3	wherein a body mass factor is introduced for post-menopausal women.
1	12. A method as in claim 11, wherein the patient characteristics further
2	include a body mass factor which is weight divided by height squared.
1	13. A method as in claim 1, wherein the blood nicotine level is measured
2	as a stable nicotine metabolite.
1	14. A method for determining a relationship between nicotine dosage
2	and nicotine serum concentration in a population of patients who smoke tobacco, said
3	method comprising:
4	measuring blood nicotine concentrations in individual patients in said
5	population while said individuals are smoking;
6	administering a known dosage of nicotine to the patient after the patient has
7	stopped smoking;
8	measuring blood nicotine concentrations in each individual patient while
9	administering nicotine and while the patient refrains from smoking;
10	determining at least two values corresponding to characteristics from each
11	individual patient selected from the group consisting of a body mass factor, a cumulative
12	smoking factor, a psychological dependence factor, age, and menopausal status; and
13	determining a relationship between nicotine dosage and nicotine serum
14	concentration as a function of blood nicotine concentration while smoking and said at least
15	two patient characteristics.
1	15. A method as in claim 14, wherein the dosage is administered
2	transdermally with at least one patch, wherein the determined relationship is blood nicotine
3	level per patch.
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1	16 A method as in claim 14 wherein the patient is a male and the

patient characteristics include at least a body mass factor and a cumulative smoking factor.

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1 17. A method as in claim 16, wherein the body mass factor is a body 2 mass index which is weight divided by height squared and wherein the cumulative smoking 3 factor is the number of packs smoked per day immediately prior to cessation times the 4 number of years smoked. 1 18. A method as in claim 16, wherein the patient characteristics further 2 include a psychological dependence factor, which is measured using the Fagerström 3 Tolerance Questionnaire. 19. 1 A method as in claim 18, wherein the patient characteristics further 2 include age measured as years. 1 20. A method as in claim 14, wherein the patient is a female and the 2 patient characteristics include at least a psychological dependence factor and age. 1 21. A method as in claim 20, wherein the psychological dependence 2 factor is measured using the Fagerström Tolerance Questionnaire and age is measured as 3 years. 1 22. A method as in claim 20, wherein the patient characteristics further 2 include menopausal status, wherein no factor is introduced for pre-menopausal women and 3 wherein a body mass factor is introduced for post-menopausal women. 1 23. A method as in claim 22, wherein the patient characteristics further 2 include a body mass factor which is weight divided by height squared. 1 24. A method as in claim 14, wherein the blood nicotine level is 2 measured as a stable nicotine metabolite.